RECEIVING APPARATUS, TRANSMITTING APPARATUS, AND COMMUNICATION SYSTEM

ABSTRACT OF THE DISCLOSURE

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A receiving apparatus and transmitting apparatus capable of reliably transmitting and receiving a high speed optical signal and a communication system using the same, wherein provision is made of /a transmitting apparatus comprising a conversion/circuit for converting serially input data to a plurality of bits of parallel data given predetermined information and an LED array comprised of LED units of at least a number corresponding to the number of bits of the parallel data from the conversion circuit arranged in an array, wherein the LED units are controlled in 1/4 ght emission in parallel based on bit information of corresponding parallel data to emit information light dispersed in a spatially predetermined range, and of a rece#ving apparatus having a photo-diode array comprised of /a plurality of photo-diodes for emitting electric/signals of levels in accordance with amounts of light/received arranged in an array, wherein the photo-diode's output electric signals in parallel, for selecting information in accordance with the information light based on the plurality of electric signals output

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in parallel from the photo-diode array, converting the selected parallel data to serial data, and outputting the

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